ABSTRACT

Method of calibrating a microwave source

The present invention relates to a method for calibrating the phase of a microwave source, in which: [[-]] a calibration circuit is closed, the calibration circuit comprising an injection channel connected to a measurement channel via the source to be calibrated; [[-]] a test signal is injected through the source to be calibrated, the test signal being injected on the injection channel, [[-]] the phase ϕ_m of the signal having passed through the source to be calibrated is measured, the phase of the signal being measured on the measurement channel, eharacterized in that: wherein: [[-]] the amplitude A_m of the signal having passed through the source to be calibrated is measured, the amplitude of the signal being measured on the measurement channel;

[[-]]he calibration circuit is opened at the source to be calibrated; [[-]] the test signal is injected on the injection channel; [[-]] the phase φ_f and the amplitude A_f of the signal present on the measurement channel is measured; [[-]] a corrected phase value φ_c is determined, this corrected phase being the phase of a complex number U_c , calculated from two complex numbers U_m and U_f , where: $U_m = A_m \cdot \exp(i \cdot \varphi_m)$ $U_f = A_f \cdot \exp(i \cdot \varphi_f)$

Figure 6